

Title (en)  
ELECTRONIC TIMEPIECE WITH A SOLAR CELL

Publication  
**EP 0194136 B1 19900613 (EN)**

Application  
**EP 86301543 A 19860305**

Priority  
JP 4324385 A 19850305

Abstract (en)  
[origin: EP0194136A2] An electronic timepiece comprises an oscillator (<sub>1</sub>) for generating a time standard signal; a frequency divider (18) for receiving the time standard signal and producing therefrom time signals; pulse generating circuits (19; 20, 21, 22, 30) receiving the time signals; driving circuits (24, 30) connected to receive pulses from the pulse generating circuits; step motors (25, 31) driven by the driving circuits; energy supplementary source (1) such as a solar cell for generating electric energy; and a capacitor (5) for storing electrical energy. A detecting circuit (6) detects the voltage on the capacitor and generates a signal in order to stop at least one of the motors. A counting circuit (27) counts the time for which said one motor is stopped by the detecting circuit and a control circuit (22) drives the motor that has been stopped to position a hand driven thereby to the present time indication under the control of the counting circuit when the detecting circuit no longer generates the signal to stop that motor.

IPC 1-7  
**G04C 10/02**

IPC 8 full level  
**G04C 3/14** (2006.01); **G04C 10/02** (2006.01); **H02P 8/02** (2006.01)

CPC (source: EP US)  
**G04C 3/146** (2013.01 - EP US); **G04C 10/02** (2013.01 - EP US)

Cited by  
SG137793A1; EP0615178A3; EP3712718A1; EP0208986B1; EP0420796B1

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**EP 0194136 A2 19860910**; **EP 0194136 A3 19861230**; **EP 0194136 B1 19900613**; DE 3671994 D1 19900719; JP S61202186 A 19860906; US 4702613 A 19871027

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**EP 86301543 A 19860305**; DE 3671994 T 19860305; JP 4324385 A 19850305; US 83596986 A 19860304